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REPORT NO. 9

Cotton Fiber and Processing Test Results

CROP of

1973



Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38117 December 21, 1973

This is the ninth of a series of reports of fiber and processing test results from the 1973 cotton crop. Subsequent reports in this series will follow at approximately two-week intervals during the harvesting season, and will be summarized in a comprehensive report at the end of the season. This series will present data on the same subject as "Summary of Cotton Fiber and Processing Test Results, Crop of 1972", May 1973. These reports are published by the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, Memphis, Tennessee.

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1973

Discussion of Test Results

Cotton Division laboratories of the Agricultural Marketing Service, USDA, report fibers from Southwest short staple samples tested, to date, are stronger than through the same period a year ago. Yarns spun from these samples have lower appearance grades. Yarn imperfections are fewer than last season. Average* spinning potential yarn number is lower.

Averages for all medium staple samples tested through December 14 show longer, and coarser fibers than a year ago. Yarns spun from these samples show lower appearance grades. Imperfections were greater in samples tested to date. Spinning potential yarn number is lower than a year ago.

Southeastern medium staple samples tested show coarser and slightly weaker fibers this season. Shirley Analyzer nonlint content is higher. Yarn imperfection counts are higher than a year ago at this time. Average spinning potential yarn number is lower.

South Central medium staple samples tested, to date, show longer, coarser and slightly weaker fibers. Yarns spun from these samples show approximately the same processing test results as a year ago.

Southwest medium staple samples have about the same fiber qualities as measured through this date last year. Picker and card waste is less. Yarn shein strength is weaker than a year ago. Yarn appearance grades are lower with more imperfections showing up this season. Average spinning potential number is lower.

Medium staple samples from the West show fibers to be longer, more uniform, coarser and considerably stronger than last season. Yarns spun from these samples are stronger. Appearance grades are lower, however, than a year ago.

Averages for all long staple samples tested show coarser and weaker fibers at zero gage strength. Yarns spun from these samples have higher appearance index number for both carded and combed yarns. Imperfections are fewer than last year. Average spinning potential yarn number is lower.

Southeast long staple samples are coarser and weaker than a year ago. Yarn strength is weaker. Yarn appearance index numbers are higher this season. Yarn imperfections are fewer. Average spinning potential number is lower.

South Central long staple samples tested through this period are shorter, coarser and weaker than a year ago. Comber waste is higher this season. Yarn strength is weaker. Appearance grades are higher and the imperfection count is lower. Spinning potential number is lower.

Long staple samples tested from the West are coarser and stronger than last season. Comber waste is less. Yarns spun from these samples are stronger and have higher appearance index number. Yarn imperfections are less than last season. Average spinning potential yarn number is higher.

Extra long staple, American Pima, samples from the West are coarser than last season. Yarn appearance grades are higher and imperfection count is less this season.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States
1/
through December 14, 1973

Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results									
		Fibrograph		Mike fine- ness	Fiber strength		S A nonlint	P & C waste	Yarn quality		Spin. Potent.						
		2.5% span	50/2.5 unif.		Pct.	Rdg.			Mpsi	G/tex		Pct.	Pct.	Lbs.	Index	No.	
				Inches			No.	22s			Carded						Yarn
<u>Short Staple:</u>																	
Southwest																	
1972	27	0.97	45	4.4	83	20	3.2	6.1	94	119	24	47					
1973	37	0.97	46	4.5	84	21	3.4	6.5	93	109	18	43					
<u>Medium Staple:</u>																	
Southeast																	
1972	57	1.07	45	4.3	83	23	2.9	6.2	104	103	16	66					
1973	42	1.08	46	4.5	82	22	3.6	6.2	103	106	22	62					
South Central																	
1972	146	1.08	46	4.3	83	23	2.8	6.2	104	109	19	64					
1973	136	1.10	45	4.5	82	22	3.1	5.8	102	108	19	62					
Southwest																	
1972	32	1.07	45	4.4	83	22	3.2	6.2	102	119	23	62					
1973	37	1.07	45	4.4	82	22	2.8	5.7	97	100	25	57					
West																	
1972	52	1.09	45	4.4	90	24	2.6	5.4	110	121	17	66					
1973	48	1.13	47	4.6	94	26	2.2	5.4	119	106	18	68					
U.S. Average																	
1972	287	1.08	45	4.3	85	23	2.8	5.9	105	113	18	65					
1973	263	1.10	45	4.5	84	23	3.0	5.8	103	106	20	62					
Significant dif- ference 2/																	
		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3					

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through December 14, 1973 1/ (Continued)

Staple group, Area, and Crop year	Fiber Test Results										Processing Test Results									
	Lots		Length		Mike		Strength		SA Non- lint	P&C Waste	Comber Waste	Yarn Quality				SPY				
			Span	Unif	Zero gage	1/8" gage	Strength carded	Appearance combed				Imprfctns card	combed							
No.	In.	Pct.	Rdg.	Mpsi	G/tx	Pct.	Pct.	Lbs.	Lbs.	Indx	Indx	No.	No.	No.						
22s Carded & Combed Yarn																				
Long Staple: Southeast 1972 1973	17	1.12	44	4.3	85	24	3.6	8.4	16.9	107	124	101	116	24	9	69				
	16	1.12	45	4.6	82	23	3.9	8.7	16.9	104	120	117	124	15	7	66				
South Central 1972 1973	4	1.16	44	4.0	88	24	4.2	8.8	16.0	116	131	100	110	20	11	75				
	6	1.14	44	4.3	86	24	3.8	8.8	17.3	108	126	117	127	19	8	64				
West 1972 1973	15	1.17	44	3.6	91	25	2.5	7.2	15.6	126	145	91	100	26	13	86				
	11	1.16	45	3.8	92	27	2.4	7.2	14.9	136	152	99	109	18	10	92				
U. S. Average 1972 1973	36	1.14	44	4.0	88	24	3.2	8.0	16.3	116	133	97	109	24	11	77				
	33	1.14	45	4.3	86	24	3.4	8.2	16.3	115	132	111	120	16	8	74				
Array																				
American Pima																				
50's Combed Yarn																				
Extra Long Staple: West 1972 1973	14	1.45	32	3.6	98	32	2.6	7.7	17.7	63			111		3					
	8	1.46	31	3.9	99	33	2.8	7.8	18.0	65			122		1					
Significant Difference 2/		0.02	2	0.2	2	1	0.5	0.5	0.5	4(22s)	5	5	2	2	2	3				
										4(22s)										

1/ Based on a limited number of samples of modal quality

Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1973

Production Area, Classification					Fiber Test Results										Processing Test Results - Carded Yarns									
Sample Number			Stple	Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Potent-ial		
				2.5% span	Unif		Zero Gage	1/8" Gage			Pct	Pct		Gra	Yel	8s or 74 tx	22sor 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22sor 27 tx		8s or 74 tx	22sor 27 tx
No	Name & Code		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Pct	Pct	No	No	No	No	No			
SOUTHWEST AREA																								
CENTRAL TEXAS																								
AVALON																								
3	LM	51	31	1.04	46	5.0	84	21	6.5	4.3	3	3	6.9	296	96	7.5	6.4	120	110	19	16	48		
NORTHWEST TEXAS																								
ANSON																								
2	SLM	41	31	0.96	46	4.2	78	20	8.2	2.8	1	3	6.8	294	89	8.7	7.2	120	90	21	16	46		
BULA																								
2	MID LT SP	32	29	0.93	45	4.0	86	22	6.9	2.9	1	3	6.0	301	93	8.4	6.8	130	120	18	11	38		
BURKBURNETT																								
1	SLM LT SP	42	32	0.99	45	4.7	79	21	7.0	4.0	2	3	6.0	279	88	7.6	6.8	120	90	29	25	41		
EDMONSON																								
1	MID	31	29	0.87	48	4.8	86	20	6.4	2.3	1	3	6.8	261	90	7.5	5.0	120	100	9	8	32		
ELDORADO																								
2	SGO	61	2/31	0.98	45	4.2	79	20	7.6	5.4	4	4	8.6	275	84	8.0	7.0	120	100	26	24	47		
HALE CENTER																								
1	MID	31	29	0.87	48	4.9	81	17	6.9	2.4	1	3	6.6	258	77	7.3	6.2	130	110	8	8	33		
HART																								
1	MID LT SP	32	30	0.90	46	4.3	80	19	6.5	4.4	2	4	6.4	273	78	7.5	5.8	130	110	14	16	34		
RAILS																								
1	SLM	41	31	.99	45	4.4	83	21	7.5	2.8	1	3	6.3	317	102	8.7	7.3	120	90	21	18	56		

1/ Cotton stuck to processing rolls
2/ Reduced from 51 because of bark

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns											
No	Grade	Name & Code	Style	32s		In	Pct	Rdg	Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potent- tial
				2.5% span	Unif					Zero	1/8" Gage			Gra	Yel		8s or 74 tx	22sor 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22sor 27 tx	8s or 74 tx	No	
SOUTHWEST AREA--(Continued)																									
NORTHWEST TEXAS--(Continued)																									
SFAGRAVES																									
2 MID	31	30	0.39	45	3.9	89	21	6.2	3.1	1	3	5.9	294	92	7.5	6.3	120	110	17	17	38				
															100 PERCENT										
STAMFORD																									
2 SLM	41	32	0.99	47	4.9	83	22	6.5	2.7	2	3	6.8	287	89	7.8	6.6	120	110	9	9	46				
															100 PERCENT										
TULSA																									
1 MID LT SP	32	29	0.87	49	5.0	85	19	6.5	2.8	2	4	7.4	261	75	7.3	5.7	120	110	14	10	31				
															90 PERCENT										

1/ Cotton stuck to processing rolls

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns												
No	Grade	Name & Code	Stple	32s		Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint		Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potent- tial	
				In	Pct	2.5% span	Unif.		Zero Gage	1/8" Gage		Pct	Mpsi	G/tex	Pct		Non- Gra	Yel	No	Pct	22s or 27 tx	Lbs	12 tx	50s or 52 tx		No
SOUTH CENTRAL AREA--(Continued)																										
ARKANSAS---(Continued)																										
OSCEOLA																										
3	SLM	41	34	1.09	43	4.3	85	20	5.9	3.6	2	2	7.2	100 PERCENT	90	23	5.6	3.7	100	70	18	16	50			
VICTORIA																										
3	LM	51	35	1.09	43	2.9	81	23	7.4	5.7	2	2	8.9	100 PERCENT	107	34	7.3	5.2	70	60	39	33	67			
WILSON																										
3	SLM	41	35	1.12	44	3.4	80	22	8.3	3.8	1	2	5.7	100 PERCENT	114	37	7.5	5.3	90	80	18	12	70			
LOUISIANA																										
BUNKIE																										
3	LM	51	34	1.08	45	4.5	75	19	7.0	3.1	4	3	7.0	80 PERCENT	84	25	5.9	4.0	100	80	14	13	56			
MISSISSIPPI																										
ARCOLE																										
3	SLM	41	36	1.14	44	4.3	79	22	8.0	2.3	2	2	4.8	100 PERCENT	110	37	7.2	5.2	100	80	10	9	71			
BELZONI																										
3	LM	51	34	1.12	42	3.8	77	21	8.3	3.8	3	2	6.1	100 PERCENT	106	35	6.9	5.1	110	80	17	11	71			
EDWARDS																										
3	LM	51	34	1.05	46	4.8	78	21	6.9	2.7	3	3	7.4	85 PERCENT	87	24	6.0	3.8	100	80	19	14	53			
FOREST																										
3	SLM LT SP	42	34	1.09	43	4.4	79	21	7.9	2.8	3	3	5.9	95 PERCENT	91	27	6.5	4.3	100	70	11	8	54			
GREENWOOD																										
3	LM	51	34	1.08	44	3.8	82	22	7.0	3.5	3	2	6.1	100 PERCENT	104	32	6.8	4.7	100	80	23	16	61			
GUNNISON																										
3	SLM	41	35	1.15	44	4.2	77	22	8.2	2.5	2	2	5.1	100 PERCENT	104	34	7.1	5.0	100	70	19	11	67			
INDIANOLA																										
3	LM	51	34	1.06	41	3.4	82	21	7.3	4.8	3	3	7.5	100 PERCENT	96	30	6.3	4.5	100	70	19	14	59			
INDIANOLA																										
3	SLM	41	34	1.09	46	5.1	83	21	7.0	2.5	2	3	5.2	100 PERCENT	100	31	6.6	4.5	110	90	13	9	59			
LELAND																										
3	LM	51	35	1.10	45	4.5	76	21	7.4	5.7	4	2	7.9	100 PERCENT	101	31	6.6	4.9	100	70	23	18	62			
LYCN																										
3	LM	51	35	1.07	45	4.3	80	21	6.9	3.1	3	2	6.3	100 PERCENT	94	28	6.2	4.4	100	70	26	19	50			

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
No	Grade	Stple	32s In	Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential	
				2.5% span	Unif.		Pct	Rdg			Mpsi	G/tex		Pct	Gra	Yel	Pct	Lbs	Lbs	22s or 27 tx	50s or 12 tx		Pct
SOUTH CENTRAL AREA--(Continued)																							
MISSISSIPPI--(Continued)																							
MACON																							
3	SLM	41	35	1.09	46	4.6	80	22	8.3	2.8	2	2	4.8	101	31	6.8	5.0	120	90	8	9	61	
95 PERCENT																							
PANTHER BURN																							
2	LM	51	35	1.15	45	4.1	78	22	8.3	5.1	2	2	6.4	108	36	7.3	5.2	100	70	22	19	67	
100 PERCENT																							
MISSOURI																							
PORTAGEVILLE																							
3	SLM	41	34	1.05	46	4.9	80	20	6.8	2.3	2	3	5.0	92	27	6.7	4.5	110	80	11	10	50	
95 PERCENT																							
SENATH																							
3	SLM LT SP	42	34	1.05	42	3.7	77	19	7.0	3.0	2	3	6.5	86	25	6.6	4.3	90	70	17	14	51	
100 PERCENT																							
STEELE																							
3	SLM	41	35	1.08	46	4.6	80	21	7.3	3.3	1	2	5.1	99	30	6.3	4.6	100	90	14	8	59	
95 PERCENT																							
SOUTHWEST AREA																							
CENTRAL TEXAS																							
WHITNEY																							
3	SGN	61	32	1.02	43	3.6	82	20	6.3	5.3	4	3	9.0	80	22	5.2	3.7	90	60	29	20	40	
100 PERCENT																							
NORTHWEST TEXAS																							
BROWNFIELD																							
2	MID	31	31	0.99	46	4.5	82	21	6.6	2.0	1	3	4.8	81	22	5.8	5.0	120	90	16	14	35	
70 PERCENT																							
LUBBOCK																							
2	SLM	41	34	1.07	44	4.3	82	23	6.9	3.1	1	3	6.1 ^{1/}	102	33	6.7	4.7	90	70	27	20	59	
100 PERCENT																							
RAYLAND																							
1	MID LT SP	32	32	1.02	47	4.6	88	23	6.0	2.5	2	3	6.5	97	29	5.8	4.6	100	70	14	12	48	
100 PERCENT																							
ROPERVILLE																							
1	MID	31	32	1.01	47	4.0	85	23	6.7	2.0	0	3	4.5	107	34	7.0	5.1	110	90	17	11	61	
100 PERCENT																							
WELCH																							
1	MID	31	32	0.97	46	4.3	78	21	6.9	2.4	1	3	5.5	79	24	5.8	4.8	100	90	20	13	38	
75 PERCENT																							

1/ Cotton stuck to processing rolls

^{1/} Cotton stuck to processing rolls

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
No	Grade	Stple	32s	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Poten- tial	
				2.5% span	Unif.		Zero	Gage			Pct	Mpsi		G/tex	Pct	Gr	Yel	Pct	Lbs	Lbs	22s or 27 tx		50s or 12 tx
WEST AREA																							
ARIZONA																							
BUCKEYE																							
2 MID	31	35	1.09	45	4.8	91	24	5.8	213	1.4	0	3	5.3	100 PERCENT	102	29	5.7	4.1	120	90	5	6	50
CALIFORNIA																							
BAKERSFIELD																							
3 SLM	41	36	1.11	45	4.3	91	25	6.4	2.3	1	3	5.3	116	100 PERCENT	40	6.0	4.4	90	70	16	15	62	
BAKERSFIELD																							
3 SLM	41	35	1.09	44	3.5	89	26	6.1	2.7	1	3	5.2	118	100 PERCENT	40	6.0	4.5	80	70	23	12	71	
BRAWLEY																							
2 MID	31	35	1.12	45	4.9	90	25	6.3	2.1	0	2	6.6	101	100 PERCENT	30	5.8	4.0	100	80	19	15	55	
BUTTERNWILLOW																							
3 MID	31	36	1.10	45	4.5	93	26	5.4	1.8	0	3	4.5	120	100 PERCENT	40	5.8	4.5	110	80	11	10	65	
CHOCWCHILLA																							
2 SLM	41	36	1.11	48	4.5	98	27	5.5	2.0	1	3	5.5	126	99 PERCENT	42	5.8	4.5	100	90	13	9	74	
COALINGA																							
2 MID	31	35	1.13	48	4.6	94	26	5.6	1.5	1	3	4.7	116	100 PERCENT	40	5.9	4.4	110	90	8	8	75	
DOS PALOS																							
2 SLM	41	36	1.13	47	4.2	96	26	6.0	1.8	2	2	4.7	129	100 PERCENT	45	6.0	4.3	110	80	10	7	84	
HANFORD																							
2 SLM	41	35	1.11	45	4.3	98	25	5.4	1.8	2	3	5.3	120	100 PERCENT	40	5.6	4.3	90	70	13	9	73	
KFRMAN																							
2 SLM	41	36	1.11	48	4.3	97	27	5.5	2.3	1	3	4.8	125	96 PERCENT	44	6.2	4.6	100	80	10	8	79	
MENDOTA																							
2 SLM PLUS	40	36	1.14	46	4.4	98	27	5.5	1.6	1	3	5.9	131	100 PERCENT	45	6.3	4.8	100	80	14	12	80	
TULARE																							
3 SLM	41	36	1.09	43	3.8	95	26	5.3	2.5	2	2	4.9	124	100 PERCENT	40	5.9	4.4	100	70	11	7	70	

1/ Cotton stuck to processing rolls

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number				Fiber Test Results							Processing Test Results - Carded Yarns											
No	Grade		Stple	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Poten- tial
				2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	

32s
WEST AREA--(Continued)

WEST TEXAS																					
PECOS				DELTAPINE 16																	
2 MID	31	34	1.09	42	3.1	80	23	8.8	3.0	0	2	4.6 1/	110	34	7.3	5.4	70	70	20	18	68
PECOS				STONEVILLE 21 1/2																	
2 MID	31	34	1.08	44	3.9	79	21	7.2	2.7	0	3	5.2 1/	105	33	7.3	5.3	80	70	13	9	60

1/ Cotton stuck to processing rolls
2/ 100 percent selected for tests, less than 100 percent in the area

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1973

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
No	Grade	Name & Code	Stple	Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C and Comber Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential	
				2.5% span	Unif.		Zero	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx		
32s				In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No		
SOUTHEAST AREA																							
ALABAMA																							
BFLLEVILLE																							
3 LM	51	34	1.03	46	4.3	76	21	8.2	3.7	2	2	10.6	80 PERCENT	98	31	6.6	5.2	110	90	10	9	58	
											*	16.4		114	38	7.1	5.3	120	100	5	3		
GERALDINE																							
3 SLM	41	33	1.11	43	4.7	83	22	6.8	2.4	2	3	7.4	100 PERCENT	99	27	6.1	4.0	120	90	8	6	55	
											*	17.8		115	38	6.7	4.6	120	110	5	4		
GEORGIA																							
MADISON																							
3 SLM LT SP	42	34	1.13	44	4.5	82	23	6.0	4.0	3	3	9.4	100 PERCENT	97	28	6.1	4.5	110	70	15	10	54	
											*	18.1		116	39	6.6	4.8	120	100	7	6		
NORTH CAROLINA																							
MORVEN																							
2 SLM	41	35	1.12	46	4.9	84	23	6.4	2.6	2	3	7.8	90 PERCENT	105	35	6.2	4.2	130	100	7	6	72	
											*	15.8		124	44	6.2	5.3	130	110	2	2		
SOUTH CAROLINA																							
HARTSVILLE																							
3 LM	51	35	1.16	44	4.2	78	23	6.6	5.2	3	3	9.2	100 PERCENT	103	34	6.4	5.2	100	80	10	9	68	
											*	17.4		121	42	6.8	5.7	100	90	9	4		
SOUTH CENTRAL AREA																							
TENNESSEE																							
TRENTON																							
3 SLM	41	34	1.03	44	4.3	83	23	7.1	2.7	2	2	8.7	80 PERCENT	95	27	6.2	4.1	120	90	11	6	54	
											*	17.5		112	38	6.7	4.7	120	100	6	5		

* Comber Waste and Combed Yarn Data

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns											
No	Grade	Style	Name & Code	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint		Color Raw Stock		P & C Comber Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Poten- tial		
				2.5% span	Unif.		Zero Gage	1/8" Gage		Pct	Pct	Gra	Yel		Lbs	Lbs	22s or 27 tx	50s or 12 tx	Pct	Pct	22s or 27 tx	50s or 12 tx		22s or 27 tx	50s or 12 tx
32s				In	Pct	Pct	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No	No		
WEST ARFA																									
NEW MEXICO																									
ARTESIA																									
3	MID	31	36	1.16	43	3.4	97	27	5.2	3.1	0	3	7.8	* 16.2	77 PERCENT		135	47	6.3	4.9	70	24	19	88	
															155	56	6.6	5.3	90	80	14	11			
DEXTER																									
3	MID	31	37	1.22	43	3.0	88	27	6.0	2.5	1	3	7.6	* 14.6	100 PERCENT 1/		139	50	6.6	5.0	80	18	15	103	
															152	57	6.7	5.4	90	70	11	5			
WEST TEXAS																									
DELL CITY																									
1	MID	31	36	1.11	46	3.9	88	26	6.2	2.7	0	3	8.1	* 15.6	80 PERCENT		123	43	6.4	4.8	110	17	12	80	
															140	52	6.8	5.3	110	100	6	3			

1/ 100 percent selected for tests, less than 100 percent in the area

* Comber Waste and Combed Yarn Data

Table 5 --Cotton, American Pima extra long staple: Quality characteristics by production areas, crop of 1973

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Combed Yarns									
Sample Number		Array Length		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Comber Waste	Strength		Elongation		Appearance Index		Imprfct'ns				
		UQL	CV		Zero Gage	1/8" Gage			Mpsi	G/tex			Pct	No	No	Pct	Ibs	Pct	Ibs	Pct	No	No	50s or 12 tx
No	Grade	Stple	32s	In	Pct	Rdg							Pct	Ibs	Pct	Pct	No	No	50s or 12 tx	80s or 7 tx			
WEST AREA																							
ARIZONA																							
SAFFORD																							
1	4	44		1.53	29	3.9	100	36	7.2	4.3	4	5	9.3	17.2	80 PERCENT	5.4	4.8	120	120	1	1		
NEW MEXICO																							
LAS CRUCES																							
1	3	44		1.45	30	4.0	98	30	7.0	2.3	4	5	8.2	18.0	80 PERCENT	5.4	4.8	120	120	0	0		
WEST TEXAS																							
EL PASO																							
2	3	44		1.41	34	3.7	102	33	7.3	3.2	4	5	7.8	18.8	100 PERCENT	5.2	4.6	130	120	1	0		
EL PASO																							
2	3	44		1.43	33	3.6	99	34	7.1	2.5	4	5	7.9	18.9	100 PERCENT	5.3	4.7	120	120	1	1		
PECCS																							
2	3	44		1.43	30	3.8	97	31	8.1	2.2	4	6	7.9	17.4	100 PERCENT*	5.5	4.8	120	120	1	0		

* 100 percent selected for tests, less than 100 percent in the area

